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(FILE 'HOME' ENTERED AT 14:22:55 ON 04 MAY 2004)

FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, MEDICONF' ENTERED  
AT 14:23:07 ON 04 MAY 2004

L1 6740 S AGE (L) MACULAR? (L) DEGEN?  
L2 129 S L1 AND (MIG OR IP10 OR MONOLINE? OR INTERFERON?)  
L3 72 DUP REM L2 (57 DUPLICATES REMOVED)  
L4 30 S L3 AND (VIR? OR VECTOR OR RETRO? OR LENTI? OR HIV? OR MUL? O  
L5 30 SORT L4 PY  
L6 27 S L5 AND (NEOVAS? OR ANGIO? OR VASCU? OR VESS?)  
L7 27 SORT L6 PY  
L8 859214 S NEOVAS? OR VASCUL? OR ANGIOGEN?  
L9 520435 S EYE OR OCULAR OR INTRAOCULAR  
L10 371 S L1 (L) L8 (L) 9  
L11 430320 S LENTIVIR? OR HIV?  
L12 3 S L1 (L) L8 (L) 9 (L) L11  
L13 1 DUP REM L12 (2 DUPLICATES REMOVED)  
L14 1429 S L9 AND (GENE THERAPY)  
L15 109 S L14 (L) L11  
L16 79 DUP REM L15 (30 DUPLICATES REMOVED)  
L17 79 FOCUS L16 1-  
E APPUKUTTAN BINOY/AU  
L18 18 S E3  
L19 14 DUP REM L18 (4 DUPLICATES REMOVED)  
L20 6 S L19 AND (LENTI? OR HIV)

=> d an ti so au ab pi l20 4 5

L20 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:334392 CAPLUS

DN 138:348751

TI **Lentiviral** vector-mediated gene transfer and uses thereof

SO U.S. Pat. Appl. Publ., 61 pp., Cont.-in-part of U. S. Ser. No. 25,264.  
CODEN: USXXCO

IN **Appukuttan, Binoy**; Stout, J. Timothy

AB The present invention provides **lentiviral** vectors that are  
useful in human gene therapy for inherited or acquired proliferative  
ocular disease. It furnishes methods to exploit the ability of  
**lentiviral** vectors to transduce both mitotically active and  
inactive cells so that eye diseases may be treated.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003082159	A1	20030501	US 2002-245050	20020917
US 2002114783	A1	20020822	US 2001-25264	20011219
WO 2004027033	A2	20040401	WO 2003-US29534	20030917

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,  
CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,  
IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,  
MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ,  
TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD,  
RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,  
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,  
NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG

L20 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:487422 CAPLUS

DN 137:57587

TI **Lentiviral** vector-mediated gene transfer and uses thereof

SO PCT Int. Appl., 91 pp.

CODEN: PIXXD2

IN Stout, J. Timothy; **Appukuttan, Binoy**

AB The present invention provides a means of human gene therapy for inherited  
or acquired proliferative ocular disease. It furnishes methods to exploit  
the ability of **lentiviral** vectors to transduce both mitotically  
active and inactive cells so that eye diseases may be treated.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002049677	A1	20020627	WO 2001-US49241	20011218	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	AU 2002034053	A5	20020701	AU 2002-34053	20011218	
	EP 1343532	A1	20030917	EP 2001-985065	20011218	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		

L17 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:211996 CAPLUS  
DN 140:241009  
TI Recombinant **lentiviral** vector pseudotyped with the hemagglutinin protein for gene transfer into the retina and use for **gene therapy** of **eye** diseases  
SO Eur. Pat. Appl., 22 pp.  
CODEN: EPXXDW  
IN Rolling, Fabienne; Cosset, Francois-Loic  
AB The present invention relates to a novel **lentiviral** vector particularly well shaped for performing gene transfer into the retina. These **lentiviral** vectors are pseudotyped with a HA protein from an orthomyxovirus and comprise one or several gene(s) useful for preventing or treating diseases of the **eye**. The invention also relates to compns. and methods for preventing or treating diseases of the **eye**, using the vector of the invention to transfer selected genes suitable for preventing or treating diseases of the **eye**.  
PATENT NO. KIND DATE APPLICATION NO. DATE  
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PI EP 1398041 A1 20040317 EP 2002-292255 20020913  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  
WO 2004024190 A2 20040325 WO 2003-EP11815 20030915  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

L13 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1  
 AN 2003064911 MEDLINE  
 TI Lentivirus-mediated expression of angiostatin efficiently inhibits neovascularization in a murine proliferative retinopathy model.  
 SO Gene therapy, (2003 Feb) 10 (3) 219-26.  
 Journal code: 9421525. ISSN: 0969-7128.  
 AU Igarashi Tsutomu; Miyake Koichi; Kato Ko; Watanabe Atsushi; Ishizaki Masamichi; Ohara Kunitoshi; Shimada Takashi  
 AB Ischemic retinal diseases, such as diabetic retinopathy, retinopathy of prematurity, and **age-related macular degeneration**, are a major cause of blindness worldwide. Angiostatin is an internal peptide fragment of plasminogen that inhibits endothelial proliferation in vitro and tumor growth in vivo. We now demonstrate that **HIV** vector encoding angiostatin (**HIV**-angiostatin) can inhibit retinal **neovascularization** in a mouse model of proliferative retinopathy. Intravitreal injections of **HIV**-angiostatin led to stable expression of the angiostatin gene in retinal tissue. Retinal **neovascularization** was histologically quantitated by a masked protocol. Retinal **neovascularization** in the eye injected with **HIV**-angiostatin was reduced in 90% (9/10; P=0.025) of animals, compared with the eye injected with phosphate-buffered saline. Reduction of histologically evident **neovascular** nuclei per 6-microm section averaged 68%, with maximal inhibitory effects of 87%. **Neovascularization** was not reduced in the eyes injected with **HIV** vector encoding enhanced green fluorescent protein. This is the first report that **HIV**-angiostatin can reduce **neovascular** cell nuclei in a murine proliferative retinopathy model. These data suggest that the anti-**angiogenic** activity of angiostatin has therapeutic potential for the treatment of retinal **neovascularization**.

L Number	Hits	Search Text	DB	Time stamp
5	2	Appukuttan NEAR Binoy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 14:56
6	5	Stout NEAR Timothy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 14:56
8	2051	age NEAR related NEAR macular NEAR degeneration	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:01
9	58290	lentivir\$9 or HIV\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 14:58
10	503	(MIG SAME IP10) OR (monkine NEAR induced WITH interferon) OR (interferon SAME inducible NEAR protein)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:00
11	8	(age NEAR related NEAR macular NEAR degeneration ) and (lentivir\$9 or HIV\$5) and ((MIG SAME IP10) OR (monkine NEAR induced WITH interferon) OR (interferon SAME inducible NEAR protein))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:01
12	345	(age NEAR related NEAR macular NEAR degeneration).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:02
14	89	((age NEAR related NEAR macular NEAR degeneration).clm. ) and (lentivir\$9 or HIV\$5).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:03
16	25	((age NEAR related NEAR macular NEAR degeneration).clm. ) WITH (lentivir\$9 or HIV\$5).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:05
17	23	(US-6489305-\$ or US-6397849-\$ or US-5824299-\$).did. or (US-20030191072-\$ or US-20030158112-\$ or US-20030125521-\$ or US-20030119112-\$ or US-20030113870-\$ or US-20030109438-\$ or US-20030105055-\$ or US-20030105013-\$ or US-20030105012-\$ or US-20030105011-\$ or US-20030100497-\$ or US-20030082159-\$ or US-20030045498-\$ or US-20020194630-\$ or US-20020183253-\$ or US-20020137678-\$ or US-20020114783-\$).did. or (WO-9737542-\$ or WO-9811218-\$).did. or (WO-9737542-\$).did.	USPAT; US-PGPUB; EPO; DERWENT	2004/05/04 15:05
-	708944	neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:10
-	289121	eye or ocula\$5 or intraocular	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:46
-	9281	(neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization) SAME (eye or ocula\$5 or intraocular)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:46
-	35424	(neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization) and (eye or ocula\$5 or intraocular)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:47
-	20185	(retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:59

-	4335	((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3) and ((neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization) and (eye or ocula\$5 or intraocular))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:51
-	3835	((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3) and ((neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization) and (eye or ocula\$5 or intraocular))) and (gene ADJ theras\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:51
-	521	((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3) and ((neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization) and (eye or ocula\$5 or intraocular))) and (gene ADJ theras\$5) and (macular ADJ degeneration)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:53
-	3340	(neovascularization or angiogen\$6) SAME (eye or ocular or intraocular)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:21
-	637	((neovascularization or angiogen\$6) SAME (eye or ocular or intraocular)) and ((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:04
-	9	((neovascularization or angiogen\$6) SAME (eye or ocular or intraocular)) SAME ((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:05
-	2	Appukuttan NEAR Binoy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:07
-	4	Stout NEAR Timothy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:08
-	24	((neovascularization) SAME intraocular) and ((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:27
-	30203	Monokine ADJ induced ADJ by interferon\$9	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:29
-	3	((neovascularization) SAME intraocular) and (MIG or IP10)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:33
-	172	ocular SAME gene ADJ therapy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:33
-	18	(ocular SAME gene ADJ therapy) and ((neovascularization or angiogen\$6) SAME (eye or ocular or intraocular)) and ((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:34
-	18	(US-6397849-\$ or US-6489305-\$).did. or (US-20020114783-\$ or US-20020183253-\$ or US-20030045498-\$ or US-20030082159-\$ or US-20020137678-\$ or US-20030100497-\$ or US-20030105011-\$ or US-20030105012-\$ or US-20030109438-\$ or US-20030105013-\$ or US-20030113870-\$ or US-20030125521-\$ or US-20030119112-\$ or US-20030158112-\$ or US-20030105055-\$ or US-20030191072-\$).did.	USPAT; US-PGPUB	2003/10/29 16:40
-	2	("6375929").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:45

-	19	ryan SAME hinton	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:08
-	366	ryan AND retroviral	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:08
-	31	(ryan AND retroviral) and neovascularization	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:12
-	238	RYAN NEAR STEPHEN	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:12
-	1	( RYAN NEAR STEPHEN ) and neovascularization	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:12
-	2	( RYAN NEAR STEPHEN ) and retroviral	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:12
-	23	neovascularization SAME retrovir\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:13
-	37	retinopathy SAME retrovir\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:14
-	175	(neovascularization) SAME intraocular	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:21
-	0	retrovir\$5 SAME IP10	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:37
-	8	retrovir\$5 SAME Mig	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:39
-	8	retrovir\$5 SAME IP-10	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:42
-	120	retrovir\$5 SAME bcl-2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:42